

PATENT CLAIMS

1. A sound-insulating composite part, particularly for motor vehicles, comprising a heavy layer (7) and at least one absorber layer (8) made of open-pored, elastic absorbing material, multiple webs (9) being molded on the heavy layer (7), which are made of the material of the heavy layer, and the heavy layer material forming the webs (9) being pressed into and/or through the absorber layer (8), characterized in that the webs (9) divide the absorber layer (8) into multiple absorber areas (11) of different sizes and different thicknesses which project like cushions in relation to the webs (9).
2. The composite part according to Claim 1, characterized in that the webs (9) comprise webs of different heights and/or different widths.
3. The composite part according to Claim 1 or 2, characterized in that the heavy layer (7) has areas of different thickness and/or density.
4. The composite part according to one of Claims 1 through 3, characterized in that the absorber layer (8) is made of polyurethane foam of the polyether type.
5. The composite part according to one of Claims 1 through 4, characterized in that the absorber layer (8, 13) is made of a foam which has a compression hardness σ_{d40} of not less than 4 kPa and a permanent set upon prior compression by 50% and a 72-hour storage at 70 °C in the range from 3 to 6%.

6. The composite part according to one of Claims 1 through 5,
characterized in that the heavy layer (7) is coated with a further absorber layer (13, 14) on its side facing away from the absorber layer (8).
7. The composite part according to Claim 6,
characterized in that the further absorber layer (13) comprises a foam layer, nonwoven material layer, and/or carpet product (14).
8. The composite part according to one of Claims 1 through 6,
characterized in that the heavy layer (7) is provided with a further absorber layer (13) and a carpet product (14) connected thereto on its side facing away from the absorber layer (8).
9. The composite part according to Claim 8,
characterized in that the connection of the carpet product (14) to the further absorber layer (13) is implemented as acoustically open.
10. The composite part according to Claim 8 or 9,
characterized in that the carpet product (14) and the further absorber layer (13) are glued to one another, the adhesive containing ceramic microbodies and/or hollow microbodies.